LOUISIANA TECH UNIVERSITY
INVITATION TO BID (ITB)

PURCHASE
OF
DATA PROCESSING
HARDWARE

Issuing Agency:

LOUISIANA TECH UNIVERSITY

ITB Coordinator:

KAREN MURPHY
DIRECTOR OF PURCHASING
kmurphy@latech.edu

Bid Opening:

APRIL 15, 2010
2:00 P.M.

Purchasing Department
408 Keeny Hall
PO Box 3157
Ruston LA 71272
Ph. 318.257.4205
Fax 318.257.3772

Solicitation Number:

50012-133-10
CYBERSPACE RESEARCH HIGH-PERFORMANCE COMPUTING EQUIPMENT & SOFTWARE

Part I. Scope, Evaluation, Selection, and Award

1.1 Scope

This ITB solicits bids for the purchase of an Air Force-funded Cyberspace Research Lab as described in Attachment I that will be housed at the new Tech Pointe building in the University's Enterprise Campus. This is a five year contract which includes the purchase and installation of equipment and software with a one year warranty and four years maintenance.

1.2 Evaluation and Selection

All responses received as a result of this ITB shall be subject to evaluation by a duly authorized committee for the purpose of selecting the bidder with whom a contract may be negotiated.

1.3 Basis of Evaluation and Selection

The basis of evaluation and selection shall be as follows:

1.3.1 The bid shall be evaluated to insure that all mandatory administrative requirements have been met. Failure to meet all of these requirements shall result in rejection of the entire bid without further consideration.

1.3.2 The bid shall be evaluated to insure that all mandatory technical requirements have been met. Failure to meet all of these requirements shall result in rejection of the entire bid without further consideration.

1.3.3 The next consideration shall be the total projected cost, including charges for installation and shipping.

1.3.4 Louisiana Tech University reserves the right to require additional information from bidders, and to conduct necessary investigations to determine responsibility of bidders or to determine accuracy of bid information.

1.3.5 Bidders meeting mandatory requirements may be required to make oral presentations and/or equipment demonstrations. Failure to comply shall result in rejection of the bid and forfeiture of bid guarantee.

1.4 Preaward Negotiations

Upon determination of which bidder is the apparent lowest responsive and responsible bidder, Louisiana Tech University reserves the right to negotiate final contract terms with that bidder. If for any reason the apparent lowest responsive, responsible bidder does not agree to a contract, its bid shall be rejected and Louisiana Tech University may then negotiate with the next best bidder. An award shall be made only after the Office of State Purchasing, Division of Administration has approved the final contract form, and Louisiana Tech University has issued a purchase order.

CAUTION: ANY BIDDER WHO SHIPS OR OTHERWISE EXPENDS TIME OR MONEY PRIOR TO AWARD AS DEFINED ABOVE, DOES SO AT THE BIDDER'S OWN RISK.

1.5 Award

1.5.1 Award will be made on an all-or-none basis. Louisiana Tech University reserves the right to reject any or all bids and waive any informalities.

1.5.2 Louisiana Tech University is not liable for any cost incurred by the bidders prior to execution of a contract, and the issuance of a purchase order.

Part II. Mandatory Administrative Section

BIDS NOT CONFORMING TO THE FOLLOWING REQUIREMENTS SHALL BE REJECTED WITHOUT FURTHER CONSIDERATION OR EVALUATION.

2.1 Sealed Bid

Each bidder shall submit one original copy of its bid. Either the entire bid or the cost section shall be sealed.

2.2 Bid Guarantee

N/A

2.3 Performance Bond

N/A

2.4 Notice To Bidders

Each bidder is solely responsible for the accuracy and completeness of its bid.

2.5 Calendar of Events

Deadline to receive Inquiries: **MARCH 26, 2010**

Answer Inquiries: **MARCH 31, 2010**

Bid Opening: **APRIL 15, 2010**

NOTE: The State reserves the right to deviate from these dates. Any such revision will be formalized by the issuance of an addendum to this ITB.

2.6 Bidder Inquiries

No negotiations, decisions, or actions shall be executed by any bidder as a result of any oral discussions with any Louisiana Tech University employee, or Louisiana Tech University consultant. Only those transactions, which are in writing, issued as an Addendum and/or Informational Notice from Louisiana Tech University, may be considered as valid. Likewise, Louisiana Tech University shall only consider communications from bidders, which are signed and on company letterhead and/or submitted as an attachment via email. Louisiana Tech University will accept inquiries via mail, certified mail, e-mail or fax as indicated below.

Louisiana Tech University shall not and cannot permit an open-ended inquiry period, as this creates an unwarranted delay in the procurement cycle and operations of our agency customers. Louisiana Tech University reasonably expects and requires responsible and interested bidders to conduct their in-depth bid review and submit inquires in a timely manner.

Further, we realize that additional questions or requests for clarification may generate from Louisiana Tech University's addendum responses to the inquiries received during the initial inquiry period. Therefore, a final 3-day inquiry period shall be granted. Questions relative to an addendum shall be submitted by the close of business three working days from the date the addendum is posted to LaPAC[1]. If necessary, another addendum will be issued to address the final questions received. Thereafter, all proposal documents, including but not limited to the specifications, terms, conditions, plans, etc., will stand as written and/or amended by any addendum issued as a result of the final inquiry period.

Inquiries concerning this ITB shall be submitted in writing to:

Louisiana Tech University
Purchasing Department
ATTN: Karen Murphy
PO Box 3157
Ruston LA 71272
e-mail: kmurphy@latech.edu

Fax: (318) 257-3772

2.7 Changes, Addenda, Withdrawals

If the bidder needs to submit changes or addenda, such shall be submitted in writing, signed in original ink by an official representative of the bidder, cross-referenced clearly to the relevant bid section, in a sealed envelope, prior to the bid opening. Such shall meet all requirements for the bid. If the bidder chooses to withdraw his bid response, the withdrawal notice shall be in writing and received prior to bid opening.

2.8 Alternate Bids

Alternate bids shall be submitted separately, as individual bids. Each alternate shall contain its own bid bond (if bonds are required).

2.9 Bid Response Format

The bid shall be in two parts. Part I shall contain cost data. Part II of the Bid Response shall contain documentation evidencing the bidder's compliance with the ITB requirements.

1. Purchase price for each model and feature of equipment and software as specified in Attachment I; or if applicable, the monthly rental cost of each model and feature.

   An amortization schedule shall be submitted for an installment purchase and/or financed lease.

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1 LaPAC is that portion of the Office of State Purchasing website where solicitations and addenda may be viewed, downloaded, and printed. Please refer to http://wwwprd.doa.louisiana.gov/OSP/LaPAC/pubmain.asp. Choose "Search by Bid Number" from the blue menu bar at the top of the screen, type the Bid Number and click SEARCH.

2. Annual maintenance cost for coverage as described in Part V of this ITB.

   (If the equipment solicited in this ITB is to be purchased, Paragraph 2.13 applies and costs for extended warranty shall be included separately in the price quotation.)

3. Charges for equipment and software installation shall be itemized and included and shall be itemized separate from the equipment and miscellaneous costs which are described in Paragraph 4 below.

4. Charges for transportation, including packaging to manufacturer's specification, training, and other costs associated with this project shall be itemized separate from the equipment cost.

5. A summary showing total costs for the contract period shall be required.

NOTE: All costs shall be firm for the term.

Part II of the Bid Response may be formatted at the discretion of the bidder; however, the bidder shall document in detail his ability to meet the requirements as set forth herein. Any such documentation should be cross-referenced to the specific section numbers of this Invitation to Bid (ITB).

If there is a quantity discount it must be stated.

2.10 Signature

At least one copy of the bid shall be signed in original ink on Louisiana Tech University's form by an authorized employee, agent, or representative of the bidder.

2.11 Delivery of Bids/Bid Opening

Bidders are hereby advised that the U.S. Postal Service does not make deliveries to our physical location.

Bids may be mailed through the U.S. Postal Service to our box at:

Louisiana Tech University
Purchasing Office
PO Box 3157
Ruston LA 71272
(318) 257-4205

Bids may be delivered by hand or courier service to our physical location at:

Louisiana Tech University
Purchasing Office
408 Keeny Hall
Ruston LA 71272
(318) 257-4205

Bidder is solely responsible for ensuring that its courier service provider makes inside deliveries to our physical location. Louisiana Tech University is not responsible for any delays caused by the bidder's chosen means of bid delivery.

Bidder is solely responsible for the timely delivery of its bid. Failure to meet the bid opening date & time shall result in rejection of the bid.

Bids shall be opened and the total price read aloud at 2:00 P.M., on April 15, 2010.

ALL BIDS BECOME A MATTER OF PUBLIC RECORDS AT THAT TIME. BY SUBMITTING A BID, BIDDER SPECIFICALLY ASSUMES ANY AND ALL RISKS AND LIABILITY ASSOCIATED WITH INFORMATION MARKED CONFIDENTIAL IN THE BID AND THE RELEASE OF THE INFORMATION.

2.12 Prime Contractor Responsibilities

The selected bidder shall be required to assume responsibility for all items offered in his bid whether or not he produces them. Further, Louisiana Tech University shall consider the selected bidder to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the contract. Louisiana Tech University reserves the right to contract separately for maintenance with the equipment manufacturer.

2.13 Equipment Warranty

If the equipment solicited under this ITB is to be purchased or installment purchased, the following paragraph applies to that procurement.

Louisiana Tech University requires a one (1) year warranty on all hardware and software purchased through this ITB. The warranty shall include parts and labor and shall be available 24 hours a day, seven days per week, inclusive of state and federal holidays, with a maximum of a four (4) hour response time, inclusive of travel time for remedial maintenance.

2.14 Acceptance of Bid Content

The mandatory ITB requirements shall become contractual obligations if a contract ensues. Failure of the successful bidder to accept these obligations shall result in the rejection of the bid. Non-mandatory ITB requirements may be negotiated with the successful bidder.

2.15 Taxes

ANY TAXES, OTHER THAN STATE AND LOCAL SALES AND USE TAXES, FROM WHICH LOUISIANA TECH IS EXEMPT, SHALL BE ASSUMED TO BE INCLUDED WITHIN THE BIDDER'S COST.

Part III. Non Mandatory Administrative Requirements

BIDS NOT CONFORMING TO THE FOLLOWING REQUIREMENTS MAY BE CAUSE FOR REJECTION OF A BID WITHOUT FURTHER CONSIDERATION OR EVALUATION IF IT IS DETERMINED THAT THE VARIATION IS NOT IN THE BEST INTEREST OF LOUISIANA TECH UNIVERSITY.

3.1 Presentation

Clarity of presentation is desired. Bids should be prepared simply and economically, providing a straightforward, concise description of the bidder's ability to meet the requirements of this ITB. Elaborate bindings, colored displays and promotional material are not desired. Emphasis should be on completeness and clarity of content. It is not necessary for the bidder to return the ITB package.

3.2 Inclusion of Bidder Forms, Contracts, Extraneous Terms, etc.

If the bidder has previously negotiated, and the State has accepted a contract which would be suitable for this acquisition, it should be included for information purposes.

Extraneous term(s) submitted on standard, pre-printed forms (including but not limited to: product literature, order forms, license agreements, contracts or other documents), whether or not deemed "material", which are attached or referenced with submissions, will not be considered part of the bid or resulting Contract, but rather will be deemed to have been included for informational or promotional purposes only. Acceptance and/or processing of the Bid shall not constitute such written acceptance of Extraneous Term(s) or a waiver of Louisiana Tech University's rights set forth above.

Preprinted contract forms will not be considered in the evaluation, award, or in contract negotiations in accordance with La. R.S. 39:200 F.

3.3 Number of Copies of Bid

Three (3) additional copies of the bid are desired.

3.4 Bid Validity

All bids shall be considered valid for acceptance until final contract award, unless the bidder provides for a different time period within its bid response. However, Louisiana Tech University reserves the right to reject a bid if the bidder's response is unacceptable and the bidder is unwilling to extend the validity of its bid.

Part IV. Mandatory Technical Specifications

Bidders are cautioned that all stated requirements are mandatory. This specification establishes the hardware, features, maintenance support and other technical requirements for the data processing equipment listed in Attachments to this ITB.

4.1 Equipment and Software Requirements

The mandatory equipment and software requirements are described on Attachment I.

4.2 Equivalents Acceptable

Where proprietary specifications are used, the proprietary characteristics are used only to denote the quality standard of the equipment required and do not restrict vendors to the specific brand, make or manufacturer. They are used to set forth and convey to prospective bidders the general style, type, character, and quality of equipment desired. Equivalent plug-compatible equipment shall be acceptable.

4.3 Equipment Acceptability

Only those models which shall be available for purchase or lease on the date the bid is submitted shall be considered acceptable.

Part V. Product Support

5.1 Level of Maintenance

Prior to award, the bidder shall certify that the proposed equipment shall be eligible for manufacturer maintenance and shall be liable for all expenses required to obtain said eligibility. This maintenance shall cover all components of the hardware and software purchased through this ITB.

5.2 Availability

Louisiana Tech University requires four years of maintenance to begin upon expiration of warranty. The maintenance shall include parts and labor and shall be available 24 hours a day, seven days per week, inclusive of state and federal holidays, with a maximum of a four (4) hour response time, inclusive of travel time for remedial maintenance. Maintenance will be paid annually upon renewal.

5.3 Training Requirements

Contractors shall list all training to be conducted at no cost to Louisiana Tech University. Any additional training considered necessary by the contractor to insure efficient operation by Louisiana Tech University personnel shall be itemized in the cost section of this ITB.

5.4 List of Users

Bidder shall supply, in his bid, a list of a minimum of three (3) users of equivalent equipment.

5.5 Delivery

Delivery shall be made to Louisiana Tech University, Ruston, LA. Specific location will be provided to successful bidder. All shipping charges shall be included in bid and is the responsibility of the bidder. (FOB: RUSTON LOUISIANA)

Contractor is to note that the facility that will house the proposed equipment is currently under construction. Louisiana Tech University will notify the contractor the date that equipment is to be delivered giving the contractor thirty (30) days notification for delivery. The equipment must be installed and operational within forty-five (45) days of notification.

Part VI. Equipment Standard of Performance

All equipment may be subject to the standard of performance stated below. Final terms and conditions of this standard may be negotiated with the successful bidder. Louisiana Tech University proposes the following:

6.1 Equipment shall not be accepted and payment shall not be made until the standard of performance is met. The date of acceptance should be the first day of the successful performance period.

6.2 The performance period shall begin on the installation date and shall end when the equipment has met the standard of performance for a period of thirty (30) consecutive days by operating in conformance with the contractor's bid at an effectiveness level of 99.5%.

6.3 In the event the equipment does not meet the standard of performance during the initial thirty (30) consecutive days, the standard of performance test should continue on a day-to-day basis until the standard of performance is met for a total of thirty (30) consecutive days.

6.4 If the equipment fails to meet the standard of performance after ninety (90) calendar days from the installation date, Louisiana Tech may at its option request a replacement, or terminate the order, and collect on the Performance Bond, if applicable. The effectiveness level for a system is computed by dividing the operational use time by the sum of that time plus system failure down time. Operational use time for performance testing for a system is defined as the accumulated time during which the critical components are not down when scheduled for operation. The system failure down time is that period of time when the system is inoperable due to equipment failure and productive work being utilized for acceptance testing cannot be conducted.

6.5 Down time for each incident shall start from the time Louisiana Tech University contacts the contractor's designated representative until the equipment is returned to Louisiana Tech University in proper operating condition.

6.6 Louisiana Tech University shall maintain daily records to satisfy the requirements of standard of performance and acceptance of equipment.

Part VII. SPECIAL CONDITIONS AND CONTRACT CLAUSES

The following terms and conditions shall be required in all contracts, however, the exact wording of these clauses, with the exception of those clauses denoted with an asterisk (*), may be negotiated with the successful bidder. If the bidder has a master contract with approved clauses, then the bidder may submit those clauses for use in the final contract.

*7.1 Fiscal Funding

In accordance with La. R.S. 39:1615 C. and E., any contract entered into by Louisiana Tech University as a result of this ITB shall include the following Fiscal Funding Clause:

> The continuation of this contract is contingent upon the appropriation of funds by the legislature to fulfill the requirements of the contract. If the legislature fails to appropriate sufficient monies to provide for the continuation of the contract, or if such appropriation is reduced by the veto of the Governor or by any means provided in the appropriations act or Title 39 of the Louisiana Revised Statutes of 1950 to prevent the total appropriation for the year from exceeding revenues for that year, or for any other lawful purpose, and the effect of such reduction is to provide insufficient monies for the continuation of the contract, the contract shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated.
>
> All bidders should be aware that our legislative process is such that it is often impossible to give prior notice of the non-appropriation of funds.

*7.2 INDEMNIFICATION AND LIMITATION OF LIABILITY

Neither party shall be liable for any delay or failure in performance beyond its control resulting from acts of God or force majeure. The parties shall use reasonable efforts to eliminate or minimize the effect of such events upon performance of their respective duties under this Agreement.

Contractor shall be fully liable for the actions of its agents, employees, partners or subcontractors and shall fully indemnify and hold harmless Louisiana Tech University from suits, actions, damages and costs of every name and description relating to personal injury and damage to real or personal tangible property caused by Contractor, its agents, employees, partners or subcontractors in the performance of this contract, without limitation; provided, however, that the Contractor shall not indemnify for that portion of any claim, loss or damage arising hereunder due to the negligent act or failure to act of Louisiana Tech University.

Contractor will indemnify, defend and hold Louisiana Tech University harmless, ***without limitation,*** from and against any and all damages, expenses (including reasonable attorneys' fees), claims judgments, liabilities and costs which may be finally assessed against Louisiana Tech in any action for infringement of a United States Letter Patent with respect to the Products, Materials or Services furnished, or of any copyright, trademark, trade secret or intellectual property right, provided that Louisiana Tech University shall

give the Contractor: (i) prompt written notice of any action, claim or threat of infringement suit, or other suit, (ii) the opportunity to take over, settle or defend such action, claim or suit at Contractor's sole expense, and (iii) assistance in the defense of any such action at the expense of Contractor. Where a dispute or claim arises relative to a real or anticipated infringement, Louisiana Tech University may require Contractor, at its sole expense, to submit such information and documentation, including formal patent attorney opinions, as the Commissioner of Administration shall require.

The Contractor shall not be obligated to indemnify that portion of a claim or dispute based upon: i) Louisiana Tech University's unauthorized modification or alteration of a Product, Material or Service; ii) Louisiana Tech University's use of the Service in combination with other products, materials, or services not furnished by Contractor; iii) Louisiana Tech University's use in other than the specified operating conditions and environment.

In addition to the foregoing, if the use of any item(s) or part(s) thereof shall be enjoined for any reason or if Contractor believes that it may be enjoined, Contractor shall have the right, at its own expense and sole discretion as Louisiana Tech University's exclusive remedy to take action in the following order of precedence: (i) to procure for Louisiana Tech University the right to continue using such item(s) or part (s) thereof, as applicable; (ii) to modify the component so that it becomes non- infringing equipment of at least equal quality and performance; or (iii) to replace said item(s) or part(s) thereof, as applicable, with non-infringing components of at least equal quality and performance, or (iv) if none of the foregoing is commercially reasonable, then provide monetary compensation to Louisiana Tech University up to the dollar amount of the Contract.

For all other claims against the Contractor where liability is not otherwise set forth in the Agreement as being "without limitation", and regardless of the basis on which the claim is made, Contractor's liability **for direct damages, shall be the greater of $100,000, the dollar amount of the Contract, or two (2) times the charges for services rendered by the Contractor under the Contract.** Unless otherwise specifically enumerated herein mutually agreed between the parties, neither party shall be liable to the other for special, indirect or consequential damages, including lost data or records (unless the Contractor is required to back-up the data or records as part of the work plan), even if the party has been advised of the possibility of such damages. Neither party shall be liable for lost profits, lost revenue or lost institutional operating savings.

Louisiana Tech University may, in addition to other remedies available to them at law or equity and upon notice to the Contractor, retain such monies from amounts due Contractor, or may proceed against the performance and payment bond, if any, as may be necessary to satisfy any claim for damages, penalties, costs and the like asserted by or against them.

7.3 General Contract Terms

The following general terms shall be among those included in any ensuing contract:

***7.3.1 Applicable Law**

All contracts entered into as a result of this bid, shall be governed by and interpreted in accordance with the laws of the State of Louisiana. Venue of any action brought with regard to this contract shall be in the Nineteenth Judicial District Court, parish of East Baton Rouge, State of Louisiana.

***7.3.2 Contract Controversies**

Any claim or controversy arising out of the agreement shall be resolved by the provisions of Louisiana Revised Statute 39:1673.

***7.3.3 Security**

Contractor's personnel will comply with all security regulations in effect at Louisiana Tech University's premises, and externally for materials and property belonging to Louisiana Tech University or to the project. Where special security precautions are warranted (e.g., correctional facilities), Louisiana Tech University shall provide such procedures to the Contractor, accordingly. Contractor is responsible for promptly reporting to Louisiana Tech University any known breach of security.

***7.3.4** The following provision will apply unless Louisiana Tech University specifically indicates that all information exchanged will be non-confidential:

All financial, statistical, personal, technical and other data and information relating to Louisiana Tech University's operations which are designated confidential by Louisiana Tech University and made available to the Contractor in order to carry out this Agreement, or any contract entered into as a result of this Agreement, or which becomes available to the Contractor in carrying out this Agreement, shall be protected by the Contractor from unauthorized use and disclosure through the observance of the same or more effective procedural requirements as are applicable to Louisiana Tech University. The identification of all such confidential data and information as well as Louisiana Tech University's procedural requirements for protection of such data and information from unauthorized use and disclosure shall be provided by Louisiana Tech University in writing to the Contractor. If the methods and procedures employed by the Contractor for the protection of the Contractor's data and information are deemed by Louisiana Tech University to be adequate for the protection of Louisiana Tech University's confidential information, such methods and procedures may be used, with the written consent of Louisiana Tech University, to carry out the intent of this paragraph. The Contractor shall not be required under the provisions of the paragraph to keep confidential any data or information which is or becomes publicly available, is already rightfully in the

Contractor's possession, is independently developed by the Contractor outside the scope of the contract, or is rightfully obtained from third parties.

***7.3.5** Louisiana Tech University may terminate this Agreement at any time by giving thirty (30) days written notice to contractor of such termination or negotiating with the Contractor an effective date. The Contractor shall be entitled to payment for deliverables in progress, to the extent work has been performed satisfactorily.

***7.3.6** Louisiana Tech University may terminate this agreement for cause based upon the failure of Contractor to comply with the terms and/or conditions of the Agreement, or failure to fulfill its performance obligations pursuant to this ITB, provided that Louisiana Tech University shall give the Contractor written notice specifying the Contractor's failure. If within thirty (30) days after receipt of such notice, the Contractor shall not have corrected such failure or, in the case of failure which cannot be corrected in (30) days, begun in good faith to correct such failure and thereafter proceeded diligently to complete such correction, then Louisiana Tech University may, at its option, place the Contractor in default and the Agreement shall terminate on the date specified in such notice.

The Contractor may exercise any rights available to it under Louisiana law to terminate for cause upon the failure of Louisiana Tech University to comply with the terms and conditions of this agreement, provided that the Contractor shall give Louisiana Tech University written notice specifying Louisiana Tech University's failure and a reasonable opportunity for Louisiana Tech University to cure the defect.

7.3.7 Assignment
No contractor shall assign any interest in this contract by assignment, transfer, or novation, without prior written consent of Louisiana Tech University. This provision shall not be construed to prohibit the contractor from assigning his bank, trust company, or other financial institution any money due or to become due from approved contracts without such prior written consent. Notice of any such assignment or transfer shall be furnished promptly to Louisiana Tech University.

7.3.8 No other documents other than the ITB, bidder's bid and final contract shall be binding unless such document has been reviewed by the Procurement Support Team and approved by the Chief Procurement Officer.

7.3.9 No company letterhead or logo shall be allowed on a contract document.

7.3.10 Overdue payments shall not exceed the maximum rate allowed by Louisiana State Revised Statute 39:1695 and 13:4202.

7.3.11 Louisiana Tech University is exempt from State and local taxes and sales and use taxes, as per a Certificate of Tax Exemption, which Louisiana Tech University can provide upon request.

7.3.12 The Louisiana State Legislative Auditor, federal auditors and internal auditors of the Division of Administration ("DOA") or others so designated by the DOA shall have the option to audit all accounts directly pertaining to the contract for a period of five (5) years after contract acceptance, or as required by applicable State and Federal Law. Records shall be made available during normal working hours for this purpose.

7.3.13 Survival
The rights and obligations of the Master Agreement shall survive the termination of the Master Agreement on any product(s) licensed under the terms and conditions of the Master Agreement. Survival of said rights and obligations shall be for the term specified in the individual product licenses.

7.3.15 No surreptitious code
The code manufacturer warrants that it will make all commercially reasonable efforts not to include any Unauthorized Code in the software provided hereunder. "Unauthorized code" means any virus, Trojan horse, worm or other software routine or component designed to permit unauthorized access to disable, erase, or otherwise harm software, equipment, or data, or to perform any other such actions. Excluded from this prohibition are identified and State-authorized features designed for purposes of maintenance or technical support.

7.3.16 Any changes mandated by state or federal law, whether legislative or judicial, will be incorporated; however, if such a change is not acceptable to either party, the affected term or terms of the contract shall be renegotiated and, if agreement cannot be reached,

shall be stricken from the contract.

The following clauses are mandatory if Federal Funds are utilized for procurement.

7.3.17 CIVIL RIGHTS

Both parties shall abide by the requirements of Title VII of the Civil Rights Act of 1964, and shall not discriminate against employees or applicants due to color, race, religion, sex, handicap or national origin. Furthermore, both parties shall take Affirmative Action pursuant to Executive Order #11246 and the National Vocational Rehabilitation Act of 1973 to provide for positive posture in employing and upgrading persons without regard to race, color, religion, sex, handicap or national origin, and shall take Affirmative Action as provided in the Vietnam Era Veteran's Readjustment Act of 1974. Both parties shall also abide by the requirements of Title VI of the Civil Rights Act of 1964 and the Vocational Rehabilitation Act of 1973 to ensure that all services are delivered without discrimination due to race, color, national origin or handicap.

7.3.18 ANTI-KICKBACK CLAUSE

The Contractor hereby agrees to adhere to the mandate dictated by the Copeland Anti-Kickback Act which provides that each Contractor or sub grantee shall be prohibited from inducing, by any means, any person employed in the completion of work, to give up any part of the compensation to which he is otherwise entitled.

7.3.19 CLEAN AIR ACT

The Contractor hereby agrees to adhere to the provisions which require compliance with all applicable standards, orders or requirements issued under Section 306 of the Clean Air Act which prohibits the use under non-exempt Federal contracts, grants or loans of facilities included on the EPA list of Violating Facilities.

7.3.20 ENERGY POLICY AND CONSERVATION

The Contractor hereby recognizes the mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

7.3.21 CLEAN WATER ACT

The Contractor hereby agrees to adhere to the provisions which require compliance with all applicable standards, orders, or requirements issued under Section 508 of the Clean Water Act which prohibits the use under non-exempt Federal contracts, grants or loans of facilities included on the EPA List of Violating Facilities.

7.3.22 ANTI-LOBBYING AND DEBARMENT ACT

The Contractor will be expected to comply with Federal statutes required in the Anti-Lobbying Act and the Debarment Act.

ATTACHMENT I

Cyberspace Enterprise Center – Business need

This solicitation is for the initial design and implementation of an Air Force-funded Cyberspace Research Lab that will be housed at the new Tech Pointe building in the University's Enterprise Campus. This facility will be comprised of both physical and virtual servers, physical and virtual desktop labs, and high computing clusters with visualization displays. This environment will be connected over frame-less storage architecture (Dell EqualLogic arrays or approved equal), and it will be the common storage platform for all components of this architecture. From the point of conceptual testing all the way to high compute display, this research information will "live" on a single storage platform that can be accessed from either system, virtual, physical or high compute clusters. From a core networking and routing perspective, the entire campus is expected to be implemented over a Network System framework of core routers, switches, security, wireless and VOIP devices and will be connected via high-speed fiber and electronics to Louisiana Tech's LONI PoP. The overall goal for the common platform is best of the breed products in collaboration, communication and security mindset of this Cyberspace Research Lab.

Business Summary

The business goal of this advanced research center is the development of functions such as virtualization, visualization, high performance computing, wireless sensor networks and micro unmanned aerial vehicles. The technology will allow researchers to simulate security breaches and develop cures for such attacks. This state of the art facility will foster collaborations among the university, government and private companies, create startup companies and retain and attract talented students and faculty.

OVERVIEW OF BID AND JOB REQUIREMENTS

- Successful vendor will ensure that one or more qualified and capable technicians are on site for the entire installation, set-up, testing, training, and implementation of this project.
- All cabling, power cords, connectors, are to be included and furnished for the project as part of the bidders' proposal.
- Reference Section 2.13 regarding warranty requirements and Section 5 regarding maintenance requirements
- Bidder must submit with their bid the number of days for delivery upon notification of award number of days for installation and set-up, and the number of days for testing of all components for all phases to full operational status. Successful vendor must fully coordinate the delivery, set-up, installation, testing, and training with the University.
- Failure to complete work by the specified date may result in penalties assessed daily in the amount of $300.
- Any equipment item, supply item or software item that does not perform properly will be replaced with a new component (not sent for repair).
- The University shall be the sole judge on requiring an equipment item, supply item or software item to be replaced.

- Partial bids will not be accepted.
- The bidders must fully disclose any and all costs to be included in their bid proposal on Attachment II.
- The bidders must disclose the name(s) of any subcontractors to be used in connection with fulfilling these bid requirements.

High Compute Visual Cluster Implementation Phase

The successful vendor shall provide the following:

Configure and fully deploy High Compute Node Cluster to include:

- Eight (8) Graphical Compute Nodes
- Fifteen (15) 30" monitors for visualization data output
- Head node server node to serve the cluster
- High-end workstation to control visualization
- High end Compute Network switch (InfiniBand) and Ethernet switch and cabling
- Freestanding monitor support system for visualization wall

Note 1: Successful vendor must provide all the visualization wall support hardware and installation services for a turn-key installation.

Note2: The High Compute Network switch must be scalable to accommodate future High Compute Clusters.

Install Cluster Node(s) hardware and software and complete HPCC Installation and configuration of above cluster.

- Additional Configuration
- Provide additional one (1) week onsite knowledge transfer

Support and Project Requirements

- Provide an outside and inside project manager (s) that has visibility in all logistical, hardware, software and services engagements. The project manager(s) will also be the lead contact for all suppliers and vendors for the complete solution.
- Bidder to submit with bid a list of past deployed projects and three (3) deployed references around the installation of a High Cluster Computing Visualization wall and the scope of the deployments. Provide UPS and other power requirements for this phase (watts, amps, sensible cooling ton info, number of cords required, etc) for successful completion of this install
- Bidder to submit with bid a list of personnel and all certifications of those personnel that will deploy this project.

1. Project Scope and Definition with rack & stack cluster

   Supply and construct freestanding visualization wall as described above
   - Completion of Onsite Rack & Stack of all items specified in 1) above
   - Provide Hardware & Network connectivity between racks and switches
   - Power on testing
   - Network cabling connectivity of high speed interconnects

2. Install Cluster Software package and complete HPCC Installation and Configuration of above cluster

   - OS installation and configuration of the cluster nodes and all switches
   - Configuring any items specified in 2) above
   - Configuring of compute nodes with IP addresses
   - Installing Cluster Software package as requested
   - Installation of Scheduler on Master Server node
   - Provide solution orientation on the system configuration and management tools
   - Install Cluster Software and other included software that manages the visualization wall displays

3. Additional Configuration

   Provide integration on software that manages the visualization wall and other customer supplied applications (open source apps) and knowledge transfer as desired. Provide how many hours this engagement will take to complete, along with training hours and knowledge transfer hours necessary. Costs of training and transfer hours to be included in Attachment II.

Deliver and Post-Acceptance Implementation

1. Rack and stack cluster components

   - Deliver solution to Customer Data Center
   - Hardware Connectivity

2. Install High Compute Cluster Software components

    - If rack/stack, connect racks and cable switches/inter-rack cabling
    - Software/OS deployment and implementation
    - Testing & Solution Validation
    - Provide all necessary knowledge transfer for software and additional items.

Enterprise Virtualization Cluster Implementation Phase

Successful vendor must provide Louisiana Technical University assistance to explain to Louisiana Tech how this can be expanded in the initial implementation of their new Enterprise Virtual Server environments.

The successful vendor shall provide the new infrastructure which shall consist of the following:

- Ten (10) servers installed with an Enterprise Virtualization platform (Ex: VMware or XEN or equal).
- Management server with Enterprise Virtual architecture
- Shared storage that will reside on frameless SAN arrays which shall be provided by the contractor

This implementation will utilize vendor's best practices and will begin with a project kickoff meeting, which will be followed by a one day design session to detail the layout of the shared storage and virtual

switch configuration. Working with Louisiana Tech University IT staff, the successful vendor will then build out the new ESC infrastructure.

Once the new environment has been built, the successful vendor will work with the Louisiana Tech University IT staff to build six (6) Virtual Machine templates. Upon completion of the engagement the successful vendor will provide detailed documentation which will include:

- Layout of Enterprise Virtual environment as built at the completion of the engagement
- Encountered issues and resolution
- Recommendation/Best Practices
- Installation/configuration methodologies

For successful completion of the Services, successful vendor shall perform the tasks in unique phases as follows:

- Installation of one (1) Virtualization Management server
- Installation of Enterprise Virtualization platform server on up to ten (10) servers
- Provision servers per customer requirements
- Work with Louisiana Tech University's IT staff to determine number and size of Volumes that are needed by the Cluster hosts. (Note, provisioning of storage is outside the scope of this project)
- Patch servers to current patch levels
- Ensure that cluster servers can see the storage LUNS that are presented
- Work with Louisiana Tech University's IT staff to create up to six (6) Virtual Machine Templates

During implementation complete as needed and provide knowledge transfer on the following:

- New Cluster Server provisioning via Virtual Management Server
- Virtual machine creation and configuration
- Cold Migration of virtual machines
- Hot migration of virtual machines
- Cloning of virtual machines
- Template creation of virtual machines
- Guest operating system customization of virtual machines
- Configuration of High Availability
- Configuration of Virtual Machines Clustering features within Virtual File Systems

Complete written document which will include:

- High level layout of Cluster environment as built at the time of the engagement.
- Recommendation/Best Practices
- Installation/configuration methodologies
- Provide transfer knowledge for two (2) additional weeks past the original engagement
- Provide UPS and other power requirements for this phase (watts, amps, sensible cooling ton info, number of cords required, etc) for successful completion of this install

Support and Project Requirements

- Provide an on-site and off-site project manager that has visibility in all logistical, hardware, software and services engagements

- Bidder to submit with bid a list of past deployed projects and scope of project along with three (3) deployed references around Enterprise Virtual Cluster deployments
- Provide UPS and other power requirements for this phase (watts, amps, sensible cooling ton info, number of cords required, etc) for successful completion of this install
- Bidder to submit with bid a list of personnel and certifications that will be deployed on this project.

Desktop Virtualization Cluster Implementation Phase

Success vendor is responsible for the Hardware installation, Virtual Desktop Services configurations, and shall perform the tasks in unique phases as follows:

- Design Virtual Desktop infrastructure for this project and report back to the Louisiana Tech University team the recommended solution that will be installed on designated servers, frameless iSCSI storage arrays, network with Network layer three switches and custom VLAN configuration for each testing environment
- Prior to deployment provide whiteboard session to Louisiana Tech University for their review of features and functionality to support the required Virtual Desktop environment
- Installation of up to ten (10) VDI sessions on ten (10) workstations with load balancing the Virtual Desktop software with drivers and service packs
- Creation of up to five (5) Virtual Machine OS Templates
- Vendor will provide all broker and connectivity portions of Virtual Desktop environments

Note1: At this point the server and storage environment will be installed and configured. This portion of the project reflects the virtual desktop environment installation and configuration.

During implementation complete as needed and provide knowledge transfer on the following:

- Knowledge transfer supplemented by a hands-on workshop around customizing the Master Templates for the purpose of testing research applications
- Delivery of as-built documentation for this portion of the project
- Interface to Enterprise Virtual Server environment policies across servers running Virtual Desktop Cluster
- Creation of up to eight (8) VLAN's for virtual machine traffic separation

Support and Project Requirements

- Provide an on-site and off-site project manager that has visibility in all logistical, hardware, software and services engagements.
- Provide list of past deployed projects and scope of project along with three (3) deployed references around Enterprise Virtual Desktop deployments.
- Provide UPS and other power requirements for this phase (watts, amps, sensible cooling ton info, number of cords required, etc) for successful completion of this install
- Bidder to submit with bid document a list of personnel and certifications that will deployed on this project.

Storage Implementation Phase

High Level Key Deliverables

- Windows Server 2008 Design Specification
- Functioning Windows 2008 AD DS with primary and secondary domain controllers

Successful vendor is responsible for the completion of the Services and shall perform the tasks in unique steps as follows:

Dell EqualLogic Series SAN implementation (up to 5 arrays) and 10 physical server hosts:

- Review hardware configuration
- Rack and label arrays
- Install member arrays per best practice design
- Configure LUN/Volume definitions and RAID level within the arrays and storage pools
- Configure cache and other performance parameters
- Verify fabric connectivity (iSCSI) to Cisco Network 3750E switches (or equal)
- Provide transfer knowledge for 2 additional days past the original engagement (basic storage functions, day to day maintenance, volume creation, expansion, snapshot/clone creation, etc.)

Server Hosts

- Install and configure iSCSI initiator and device driver configuration as required by OS manufacturer best practices
- Install and configure array related software as required
- Validate disk accessibility from each server
- Configure LUN access for Enterprise Virtual File system technologies per OS manufacturer best practices
- Implement hosts with High Availability (HA) features of installed per OS manufacturer best practices

Support and Project Requirements

- Provide an on-site and off-site project manager that has visibility in all logistical, hardware, software and services engagements.
- Provide list of past deployed projects and scope of project along with three (3) deployed references around Enterprise Virtual Cluster deployments.
- Provide UPS and other power requirements for this phase (watts, amps, sensible cooling ton info, number of cords required, etc) for successful completion of this install
- Provide list of personnel and certifications that will be deployed on this project.

Network Implementation Phase

Successful vendor shall provide the following:
Configure and fully deploy Network Bill of Materials and include:

1. Kickoff Project Meeting
    - Change Management
    - Escalation Procedure
    - Acceptance Criteria and Deliverables
    - MS Project Plan showing timelines, contacts in electronic format
    - Testing and Validation Preferences
    - As-Built Documentation Format and Delivery

2. Develop a Transition Plan
    - Assign Roles and Responsibilities
        - Transition Lead
        - Assignment of Project Management Team (PMT)
        - Team Introduction to Client
    - Assign Transition Process Tasks
        - Identify Task List and Timeline. The Transition list of tasks will be finalized with successful vendor and given to the Project Coordinator to be included in the MS Project plan for review with the PMT and the development of the final project plan.
        - Identify Assumptions
        - Identify Risks
        - Identify Goals
    - Coordinate & Mobilize
        - Training Agenda
        - Help Desk Processes and Procedures (list requirements including Help Desk hours, response time and other requirements of the Help Desk processes and procedures)
        - Documentation & Acceptance
        - Staffing
    - Develop a Communication Plan

3. Coordinate Floor Plan and Client Requirements
4. Testing and Validation Preferences
5. As-Built Documentation Format and Delivery
6. Scheduling and Field Services Coordination with Regional Operations Managers (ROMs)
7. Project Profile Management
8. Coordination of weekly progress meetings will be set by Louisiana Tech University and successful vendor

Assumptions for all projects:

- Project Management is mandatory for every engagement
- Project Managers will be required to work eight (8) hr shifts

Project Delivery Roles and Responsibilities:

- Central Point of Contact & Delivery Management
- Timely and professional delivery
- Scope of Work
- Project Timelines
- Installation Manuals where applicable
- Documentation

Onsite Planning and Site Assessment

- Meet with LA Tech and contacts and walk through facility
- Survey, Assess facility and Plan for IPT Integration
- Survey, Assess facility and Plan for NAC Appliance
- Survey, Assess facility and Plan for MARS
- Survey, Assess facility and Plan for Firewall
- Survey, Assess facility and Plan for Layer 1 Inside Wiring requirements,
- Survey, Assess facility and Plan for Switch configuration and Installation and Support Requirements
- Survey, Assess facility and Plan for WLAN Configuration and Coverage Expectations
- Assess network integration requirements
- Assess power requirements and availability
- Review and plan network configuration requirements with Lab contact
- Develop Project Plan
- Develop Configuration and Network Topology Diagram for Deployment

Installation:

Successful vendor will provide the following Configuration and Installation services per the chosen network architecture:

- Technology Specific Lead Engineers will be responsible for network configuration and installation
- Review of a site deployment checklist
- Coordination with CLIENT facilities team for supplemental support as needed.
- Install Each Technology CPE (per parts list) at central and remote sites
- Physical Installation and configuration of CPE (Unpacking, mounting, connection of power) Configuration of CPE per network diagram
- Running recommended equipment diagnostics and network testing
- Completing a check of installed equipment by executing next hop reach ability verification.
- Cutover Testing and Verification
- Security Testing Procedures and Validation
- Acceptance check list

Support and Project Requirements

- Provide an on-site and off-site project manager that has visibility in all logistical, hardware, software and services engagements.
- Provide list of three (3) deployed client references around equivalent Network Architecture
- Provide list of personnel and Network certifications that will deployed on each portion of Network Bill Of Materials

Microsoft Active Directory Services Implementation Phase

Successful vendor shall provide to Louisiana Tech University the best option for deploying Windows 2008 Active Directory Domain Services within, a newly deployed Windows 2008 architecture that matches business processes, administrative model and security objectives. Successful vendor will utilize developed discovery and design principles to craft and deploy proof of concept through production.

High Level Key Deliverables

- Windows Server 2008 Design Specification
- Functioning Windows 2008 Active Directory (AD) Domain Services (DS) with primary and secondary domain controllers

For successful completion of the Services, successful vendor will perform the tasks in unique steps as follows:

Domain Infrastructure (Includes Active Directory Domain Services)

Domain Infrastructure Phase One—Planning/Initial Communication

- Project kickoff and introduction of key players
- Systems Analysis
- Summarize recommendations for the implementation/migration to Windows Server 2008
- White boarding Session(s)
- Domain Services Improvements and new Features and dependent services
- Windows 2008 Writable Domain Controllers
- Windows 2008 Core Server
- Windows 2008 RODC Domain Controllers

Domain Infrastructure Phase Two—Design

Successful vendor will design the overall Domain Services Environment Architectures, using information gathered in the Assessment, and interactive workshops conducted during this phase.

This design will include best practice recommendations for the core Domain Services Environment structure, including the following architectural components as determined by Louisiana Tech University:

- Definition of Forest and Domain Model
- Defining Site boundaries and Active Directory replication
- Domain Controller configuration, including placement of (Full Installation) Writable Windows 2008 Domain controllers (HUB site/Remote sites) considerations.

Windows Server 2008 Active Directory Implementation

- Domain Controller configuration, including placement of (Server Core installation)
- Writable Windows 2008 Domain controllers (HUB/Remote Sites) considerations.
- RODC (Read Only Domain Controller) Placement Considerations for Windows 2008 domains, as determined by Louisiana Tech University
- Active Directory Replication Considerations
- Domain Controller configuration, including placement of FSMO roles and Global Catalog Servers
- Defining Organizational Unit (OU) structure
- Core network (dependant) services including DNS, DHCP and WINS (Internal DNS design)

- Naming conventions (Domains, Servers, Groups, OUs)
- Define GPO

Domain Infrastructure Phase Three—Validation

Functional Test Tasks

The following will be performed without impact to the production environment;

- Test preparing the forest schema for Windows Server 2008
- Test preparing the domain for Windows Server 2008
- Test preparing the domain for RODC Windows Server 2008
- Test the DCpromo process for building the Windows 2008 domain
- Test the installation and configuration of the Core domain Controller
- Test the Group policy creation configuration, and synchronization
- Pre-Build Tasks
- The new architecture will be deployed based on the finalized design and migration plans

Steps for this phase will include:

- Prepare the Forest and Domain(s)
- Install the Windows Server 2008 at the central (hub) site
- Installation and configuration of DNS, DHCP, and WINS at DC's located in the HUB site
- Create new Group policies at the HUB site (As applicable)
- Includes installation and configuration of up to two (2) GPOs
- Creating and configuring AD sites and site links
- Validate the following functionality:
- Preparing the forest schema for Windows Server 2008
- Preparing the domain for Windows Server 2008
- Preparing the domain for RODC Windows Server 2008
- DCpromo process for upgrading the domain to Windows 2008

Windows Server 2008 Active Directory Implementation

- The installation and configuration of the Core domain Controller
- Test the Group policy creation, configuration, and synchronization

Domain Infrastructure Phase Four—Pilot Tasks

- Perform production pilots to proof the infrastructure
- The customers internal team will be responsible (if needed) for any desktop touches.
- Guidance will be provided by the successful vendor's consultant/engineer
- All desktops and servers must be part of a single physical site (per test)
- The successful vendor's consultant/engineer will capture the "as built" process in outline form
- Up to 5 desktops may be used as part of this phase in the central (hub) site
- Test domain component functionality: email access, folder access, connectivity, etc
- Capture lessons learned into a repeatable, outline format.

Domain Infrastructure Phase Five – Delivery/Implementation

- Production deployment of Windows Server 2008
- Validated Active Directory Domain Service

- Validated Design
- Validated Processes

Support and Project Requirements

- Provide an on-site and off-site project manager that has visibility in all logistical, hardware, software and services engagements.
- Submit with bid a list of three (3) deployed client references around Microsoft Active Directory architecture
- Provide UPS and other power requirements for this phase (watts, amps, sensible cooling ton info, number of cords required, etc) for successful completion of this install
- Submit with bid a list of personnel and Microsoft certifications that will be deployed on this portion of the project

COST SHEET - ATTACHMENT II

ALL ITEMS LISTED BELOW MAY BE BID "AS APPROVED EQUAL" **

HARDWARE

Item No.	Description	DESCRIPTION	Quantity	Unit Price	TOTAL
1	Dell 4220 42U Rack	Base Unit: Dell 4220 42U Rack with Doors and Side Panels (224-4934) to include: Qty of 1 x 1U KMM Console with keyboard, touchpad and 17 LCD monitor (with rails kit) (310-9961); Qty of 3 x 6U Closeout Filler Panel For Dell Racks (310-0242); Qty of 1 x 2U Closeout Filler Panel For Dell Racks (310-0239); Qty of 1 x PE4220 42U Rack Interconnect Kit, PS to PS (330-3601); Qty of 10 x 1U Closeout Filler Panel For Dell Racks (310-0238); Qty of 1 x 208 Volt Powered Fan Kit for Dell Racks (310-6596)	2		
2	Blade Server Enclosure M1000E	Base Unit: Blade Server Enclosure, No Blades, M1000E, PowerEdge (223-3244) to include: Qty of 6 x Redundant Power Supplies (6x2360W); Qty of 1 x High Efficiency M1000E Blade Chassis (430-2623); Qty of 1 x FLEX ADDRESS ENABLED (341-7140); Qty of 1 x Redundant Chassis Management Controller, PowerEdge M1000E (311-7787); Qty of 1 x No Operating System Media Kit (420-1908); Qty of 6 x PowerEdge M-Series Blades (330-4117); Qty of 1 x Dell OpenManage CD Kit for PowerEdge M1000E Blade Server Chassis (310-9694); Qty of 1 x Dell Management Console (330-5280); Qty of 1 x PowerEdge M-Series Blades (330-4117); Qty of 1 x Dell OpenManage Kit for PowerEdge M710 Blade Server (330-3588); Qty of 1 x Dell Management Console (330-5280); Qty of 1 x Redundant Ethernet Switch Configuration (311-8060); Qty of 1 x Redundant Ethernet Switch Configuration (311-8060); Qty of 1 x Redundant Ethernet Switch Configuration (311-8060); Qty of 1 x PowerEdge M-Series Blade Multipack Box Processor FamilyLabel, Intel (310-9952); Qty of 1 x Rack Chassis w/Rapid Rails forDell, HPQ or other Square HoleRacks (310-9689); Qty of 1 x Avocent Integrated KVM Analog Switch Module, PowerEdge M1000E Chassis (430-2628); Qty of 2 x PDU,24A,208V,8.6kW,(3)C19,0U/1U,with L15-30P 3.7m attached input cord (330-6412); Qty of 2 x Power Cords, QTY3, 2FT C19/C20 for M1000E Server Blade Chassis (330-0146); Qty of 6 x Blade Blanking Panel for PowerEdge M1000E Blade Server Chassis (310-9709); Qty of 1 x Cisco Catalyst Ethernet Switch for PE M1000E Blade Chassis (430-2851); Qty of 1 x Users Guide;	2		

** Louisiana Tech University shall be the sole judge for any item as approved equal.

COST SHEET - ATTACHMENT II

ALL ITEMS LISTED BELOW MAY BE BID "AS APPROVED EQUAL"

3	PowerEdge M710 Blade Server	Base Unit: PowerEdge M710 Blade Server (224-4901) to include Qty of 6 x M-Series Blade Server DIMM Slot Blank (317-0373); Qty of 12 x 8GB Memory (96 GB Total), 1066MHz Dual Ranked RDIMMs for 2 Processors,Optimized (317-1252); Qty of 1 x E5530 Xeon Processor, 2.4GHz 8M Cache, Turbo, HT, 1066MHz Max Mem (317-1205); Qty of 1 x E5530 Xeon Processor, 2.4GHz 8M Cache, Turbo, HT, 1066MHz Max Mem (317-1217); Qty of 2 x Processor Heatsink, One Required per Processor (317-0362); Qty of 3 x 73GB 10K RPM Serial-Attach SCSI 2.5" Hot Plug Hard Drive (341-8713); Qty of 1 x Onboard Broadcom 5709 Quad Port 1GbE NIC, with TOE (430-3553); Qty of 2 x Broadcom 5709 Dual Port GbE I/O Card for M-Series Blades Redundant (430-3187); Qty of 1 x CERC6/I RAID Controller Card 128MB Cache, M-Series Blade Servers (341-5689); Qty of 1 x Add-in CERC6/i supporting 3-4HDs SAS- RAID 5 Array (341-9116); Qty of 1 x Hard Drive Bay Filler Panel (341-9121); Qty of 1 x iDRAC6 Enterprise (313-8744)	10		
4	PowerEdge R710	Base Unit: PowerEdge R710 with Chassis for Up to Eight 2.5-Inch Hard Drives (224-4845) to include: Qty of 4 x 2GB Memory (8GB total), 1066MHz Dual Ranked UDIMMs for 2 Processors, Adv ECC (317-0231); Qty of 1 x Embedded Broadcom, GB Ethernet NICS with TOE (430-1764); Qty of 1 x E5520 Xeon Processor, 2.26GHz 8M Cache, Turbo, HT, 1066MHz Max Mem (317-1206); Qty of 1 x PowerEdge R710 Heat Sinks for 2 Processors (317-1213); Qty of 1 x E5520 Xeon Processor, 2.26GHz 8M Cache, Turbo, HT, 1066MHz Max Mem (317-1216); Qty of 1 x PERC 6/i SAS RAID Controller 2x4 Connectors, Internal, PCIe256MB Cache, x8 Chassis (341-8712); Qty of 2 x Power Cord, C13 to C14, PDU Style, 12 Amps, 2 meter (330-3151); Qty of 2 x 300GB 10K RPM Serial-Attach SCSI 2.5 inch Hot Plug Hard Drive (341-9158); Qty of 1 x iDRAC6 Express (467-8649); Qty of 1 x DVD+/-RW, SATA, INTERNAL (313-9090); Qty of 1 x Bezel (313-7517); Qty of 1 x Riser with 2 PCIe x8 + 2 PCIe x4 Slot (320-7886); Qty of 1 x Electronic System Documentation and OpenManage DVD Kit (330-3485); Qty of 1 x RAID 1 for PERC 6/i or SAS 6/iR Controllers (341-8699); Qty of 1 x Sliding Ready Rails With CableManagement Arm (330-3477); Qty of 1 x High Output Power Supply Redundant, 870W (330-3475); Qty of 1 x Power Cord, NEMA 5-15P to C14,15 amp, wall plug, 10 feet / 3 meter (310-8509)	1		

COST SHEET - ATTACHMENT II

ALL ITEMS LISTED BELOW MAY BE BID "AS APPROVED EQUAL"

5	PowerEdge R610	Base Unit: PowerEdge R610 with Chassis for Up to Six 2.5-Inch Hard Drives (224-4848) to include: Qty of 2 x 2GB Memory (4GB total), 1066MHz Dual Ranked UDIMMs for 1 Processor, Adv ECC (317-0225); Qty of 1 x Embedded Broadcom, GB Ethernet NICS with TOE (430-1764); Qty of 1 x E5520 Xeon Processor, 2.26GHz 8M Cache, 5.86 GT/s QPI, TurboHT (317-0205); Qty of 1 x PowerEdge R610 Heat Sink for 1Processor (317-0212); Qty of 4 x 146GB 15K RPM Serial-Attach SCSI 2.5 inch Hot Plug Hard Drive (341-9157); Qty of 1 x SAS 6/iR Integrated (341-9145); Qty of 1 x Windows Server 2003 Standard Edition Academic, Includes 5 CALs, 2008 Media (421-0045); Qty of 1 x vFlash, 1GB SD Card for iDRAC6 Enterprise (341-8737); Qty of 1 x iDRAC6 Enterprise (467-8648); Qty of 1 x DVD ROM, SATA, INTERNAL (313-9092); Qty of 1 x Bezel (313-7534); Qty of 1 x Electronic System Documentation and OpenManage DVD Kit (330-3523); Qty of 1 x RAID 1/RAID 1 for PERC 6/i or SAS 6/iR Controllers (341-8759); Qty of 1 x Sliding Ready Rails With CableManagement Arm (330-3520); Qty of 1 x High Output Power Supply Redundant, 717W (330-3518); Qty of 2 x Power Cord, C13 to C14, PDU Style, 12 Amps, 2 meter, Qty 1 (330-3151)	1		
6	Dell EqualLogic PS6000E	Base Unit: Dell EqualLogic PS6000E (224-4849) to include: 16.0 Terabyte capacity, 16x1TB 7.2K SATA, Dual Controller (341-8768);	1		
7	Dell EqualLogic PS6000XV	Base Unit: Dell EqualLogic PS6000XV (224-4850) to include: 9.6 Terabyte capacity, 16x600GB, 15K SAS, Dual Controller, PS6000XV (342-0201)	3		

COST SHEET - ATTACHMENT II

ALL ITEMS LISTED BELOW MAY BE BID "AS APPROVED EQUAL"

8	OptiPlex 760	Base Unit: OptiPlex 760 Ultra Small Form Factor Base (224-2223) to include: Qty of 1 x Processor 760,Core 2 Duo E7500/2.93GHz,3M,1066MHz,FSB (317-0175); Qty of 1 x 2.0GB,Non-ECC,800MHz DDR2 1x2GB (311-7443); Qty of 1 x USB Keyboard, No Hot Keys, English (330-1987); Qty of 1 x 17.0 Inch monitor, 1708FP USFF AIO,Black,Height Adjustable Stand (320-7748); Qty of 1 x Integrated Video,GMA 4500 (320-7407); Qty of 1 x 80GB SATA 3.0Gb/s and 8MB DataBurst Cache (341-8006); Qty of 1 x Windows XP PRO SP3 with Windows Vista Business License, English (420-9570); Qty of 1 x USB 2 Button Optical Mouse with Scroll,Black (330-2733); Qty of 1 x Intel Standard Manageability Hardware Enabled Systems Management (330-2902); Qty of 1 x 8X DVD+/-RW,Data Only,Ultra Small Form Factor (313-7065); Qty of 1 x Cyberlink Power DVD 8.3,with Media (421-0536); Qty of 1 x Roxio Creator Dell Edition 10.3, Media (421-1189); Qty of 1 x Heat Sink (311-9523); Qty of 1 x 85PLUS Power Supply (330-1986); Qty of 1 x Documentation,English (330-1710); Qty of 1 x Power Cord,125V,2M,C13 (330-1711); Qty of 1 x Energy Smart Power Management Settings Enabled (330-4817); Qty of 1 x DVI-2-Dual VGA/DVI Video Adapter Cable (310-9944)	10		
9	Cisco Catalyst 3130X	10 Gigabit Ethernet Capable	12		
10	Cisco Catalyst 3750E	48 1GbE Ports, 2 Exp.Slots, Standard OS	2		
11	Cisco Catalyst 4948	Base Unit: Cisco Catalyst 4948, 48 1GbE Ports, 2 Exp. Slots, Standard OS (224-5296) to include: Qty of 1 x Cisco Catalyst 4900M, 300W Internal Redundant Power Supply (330-3884)	1		
12	Catalyst 3560 24 10/100/1000T PoE + 4 SFP + IPS Image		2		
13	AC Power cord, 16AWG		2		
14	SMARTNET 24X7X4 Catalyst 3560 24 10/		2		
15	Catalyst 3560E 48 10/100/1000 PoE+2*10GE(X2),1150W,IPS s/w		2		
16	CAT 3560E IOS UNIVERSAL WITH WEB BASED DEV MGR		2		
17	AC Power cord, 16AWG		2		
18	Two (2) Cisco TwinGig Converter Modules		2		
19	Cisco TwinGig Converter Module		4		
20	SMARTNET 24X7X4 WS-C3560E-48PD-EF		2		
21	10GBASE-SR X2 Module		4		
22	ME C3750 24 10/100+2SFP+2SFP ES Prt (no-pwr): Std ME SW Img		1		
23	Advanced IP Feature License for Catalyst 3750 Metro		1		
24	Configurable ME-C3750 AC Power Supply		1		
25	Metro Catalyst 3750 redundant AC power supply (configurable)		1		
26	Power Cord,110V		2		
27	19-inch brackets for mounting 1 RU Catalyst switches		1		
28	SMARTNET 24X7X4 ME C3750 24 10/100+2SFP+2SFP ES Prt (no		1		
29	Catalyst 6500 Enhanced 9-slot chassis,15RU,no PS,no Fan Tray		1		
30	Cisco CAT6000-VSS720 IOS ADVANCED IP SERVICES SSH (MODULAR)		1		
31	Cat 6500 Supervisor 720 with 2 ports 10GbE MSFC3 PFC3C XL		1		

COST SHEET - ATTACHMENT II

ALL ITEMS LISTED BELOW MAY BE BID "AS APPROVED EQUAL"

32	SP adapter with compact flash for SUP720		1		
33	Catalyst 6500 Compact Flash Memory 1GB		1		
34	10GBASE-LR X2 Module		2		
35	Cat 6500 Supervisor 720 with 2 ports 10GbE MSFC3 PFC3C XL		1		
36	SP adapter with compact flash for SUP720		1		
37	Catalyst 6500 Compact Flash Memory 1GB		1		
38	10GBASE-SR X2 Module		2		
39	Cisco 7600 Series SPA Interface Processor-400		1		
40	Cisco 2-port Gigabit Ethernet Shared Port Adapter		1		
41	1000BASE-SX SFP (DOM)		2		
42	C6K 8 port 10 Gigabit Ethernet module with DFC3CXL (req. X2)		1		
43	10GBASE-SR X2 Module		8		
44	Cat6500 48-port 10/100/1000 GE Mod: fabric enabled, RJ-45		1		
45	Catalyst 6500 Dist Fwd Card- 3CXL, for WS-X67xx		1		
46	Catalyst 6500 24-port GigE Mod: fabric-enabled (Req. SFPs)		1		
47	Catalyst 6500 Dist Fwd Card- 3CXL, for WS-X67xx		1		
48	GE SFP, LC connector SX transceiver		4		
49	Catalyst 6509-E Chassis Fan Tray		1		
50	Catalyst 6500 8700W Enhanced AC Power Supply		2		
51	AC POWER CORD NORTH AMERICA (110V)		2		
52	Catalyst 6500 Multilayer Switch Feature Card (MSFC) III		1		
53	Catalyst 6500 Sup720-10G Policy Feature Card 3CXL		1		
54	Catalyst 6500 Supervisor 720 with 2 10GbE ports		1		
55	Catalyst 6500 Compact Flash Memory 1GB		1		
56	Bootflash for SUP720-64MB-RP		1		
57	Catalyst 6500 Multilayer Switch Feature Card (MSFC) III		1		
58	Catalyst 6500 Sup720-10G Policy Feature Card 3CXL		1		
59	Catalyst 6500 Supervisor 720 with 2 10GbE ports		1		
60	Catalyst 6500 Compact Flash Memory 1GB		1		
61	Bootflash for SUP720-64MB-RP		1		
62	SPA for 6500; No Physical Part; For Tracking Only		1		
63	Catalyst 6500 Dist Fwd Card- 3CXL, for WS-X67xx		1		
64	Cat6500 8 port 10 Gigabit Ethernet module (req. DFC and X2)		1		
65	Catalyst 6500 1GB DDR, xCEF720 (67xx interface, DFC3BXL)		1		
66	Catalyst 6500 1GB DDR, xCEF720 (67xx interface, DFC3BXL)		1		
67	FERRITE-BEAD		2		
68	SMARTNET 24X7X4 7600 Series SPA Interface Processor 400		1		
69	SMARTNET 24X7X4 2-Pt Gigabit Enet Shared Pt Adptr		1		
70	24x7x4 Service,Catalyst 6509		1		
71	Cisco Secure ACS 4.X Solution Engine 1113 Appliance		1		
72	Power Cord,110V		1		
73	Config Option: ACS 4.2 software loaded on 1113		1		
74	SMARTNET 24X7X4 CiscoSecureACS 4.0SolutionEng1113Appliance		1		
75	SW APP SUPP CiscoSecureACS 4.0SolutionEng1113Appliance		1		
76	SW APP SUPP Config.Option;CSACS4.0SoftwareloadedonCisco1113		1		
77	ASA 5580-40 Appliance with 4 10GE, Dual AC, 3DES/AES		1		

COST SHEET - ATTACHMENT II

ALL ITEMS LISTED BELOW MAY BE BID "AS APPROVED EQUAL"

78	NEMA 5-15 to IEC-C19 13ft US		2		
79	ASA 5500 20 Security Contexts License		1		
80	Cisco VPN Client Software (Windows, Solaris, Linux, Mac)		1		
81	ASA 5580 4-Port 10/100/1000 Interface Card, RJ-45		1		
82	ASA 5580 Series Software v8.1		1		
83	ASA 5500 Strong Encryption License (3DES/AES)		1		
84	ASA 5500 AnyConnect Client + Cisco Security Desktop Software		1		
85	ASA 5580 AC Power Supply		1		
86	ASA 5580 2-Port 10Gigabit Ethernet Interface Card, SR, LC		1		
87	ASA 5580 2-Port 10Gigabit Ethernet Interface Card, SR, LC		1		
88	SMARTNET 24X7X4 ASA5580-40-10GE-K9		1		
89	ASA 5510 Security Plus Appl with SW, HA, 2GE+3FE, 3DES/AES		1		
90	Power Cord,110V		1		
91	ASA 5500 Series Software v8.0		1		
92	Cisco VPN Client Software (Windows, Solaris, Linux, Mac)		1		
93	ASA 5510 Security Plus License w/ HA, GE, more VLANs + conns		1		
94	ASA/IPS SSM Slot Cover		1		
95	ASA 180W AC Power Supply		1		
96	ASA 5500 AnyConnect Client + Cisco Security Desktop Software		1		
97	ASA 5500 Strong Encryption License (3DES/AES)		1		
98	SMARTNET 24X7X4 ASA5510 Sec+ w/150 VPN Prs,5FE,3DES/AES		1		
99	Cisco Security Agent [100 Desktop Agent Bundle]		1		
100	Cisco Security Agent [25 Server Agent Bundle]		1		
101	CSA Starter Bundle		1		
102	IPS 4270-20 bundled with 4-Port Cu NIC		1		
103	NEMA 5-15 to IEC-C19 13ft US		2		
104	Cisco IPS Sensor software version 6.2		1		
105	4-Port Copper NIC with bypass for the IPS 4260 and 4270		1		
106	IPS SVC, AR 24X7X4 IPS 4270-20 bundled with 4-Port Cu NIC		1		
107	Cisco Unified IP Phone 7975, Gig Ethernet, Color		1		
108	Communications Manager Express License For One 7975G Phone		1		
109	SMARTNET 8X5XNBD Cisco Unified IP Phone 7975		1		
110	Cisco Unified IP Phone 7965, Gig Ethernet, Color		1		
111	Communications Manager Express License For One 7965G Phone		1		
112	SMARTNET 8X5XNBD Cisco Unified IP Phone 7965		1		
113	Cisco Unified IP Phone 7962		1		
114	Communications Manager Express License For One 7962G Phone		1		
115	SMARTNET 8X5XNBD Cisco Unified IP Phone 7962		1		
116	Cisco Unified IP Phone 7942		1		
117	Communications Manager Express License For One 7942G Phone		1		
118	SMARTNET 8X5XNBD Cisco Unified IP Phone 7942		1		
119	Cisco 7925G FCC; CM/CME UL Reqd; Battery/PS Not Included		1		
120	Cisco Unified CME User License for single Cisco 7925		1		
121	Cisco 7925G Software, FCC		1		
122	SMARTNET 8X5XNBD Cisco 7925G FCC; CM/CME UL Reqd; Battery		1		
123	Cisco 7925G Battery, Extended		1		

COST SHEET - ATTACHMENT II

ALL ITEMS LISTED BELOW MAY BE BID "AS APPROVED EQUAL"

124	Cisco 7925G Power Supply for North America		1		
125	IP Phone power transformer for the 7900 phone series		2		
126	3845H.Perf.VSEC:AIM-VPN3/SSL,PVDM2,CCME/SRST,AIS,512F/1024D		1		
127	Power Cord,110V		2		
128	Cisco 3845 AISK9-AISK9 FEAT SET FACTORY UPG FOR BUNDLES		1		
129	Cisco3845 redundant AC power supply		1		
130	Cisco IP VSAT Satellite WAN Network Module		1		
131	Application Runtime Engine - 3800 ONLY (2GB RAM 160GB HDD)		1		
132	Application eXtension Platform Software		1		
133	Software Image for AXP		1		
134	3G WWAN HWIC-EVDO Rev A/Rel 0/1xRTT-800/1900MHz		1		
135	Two-port Voice Interface Card - FXO (Universal)		1		
136	Two-Port Voice Interface Card- FXS and DID		1		
137	2-Port 2nd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1		1		
138	Multi-Band Swivel Mount Dipole Antenna - Faceplate Mount		1		
139	Device manager for routers		1		
140	Cisco 3845 AC power supply		1		
141	256 to 1024MB DDR DRAM factory upgrade for Cisco 3800		1		
142	64 to 512MB Compact Flash factory upgrade for 3800 Series		1		
143	DES/3DES/AES/SSL VPN Encryption/Compression		1		
144	64-Channel Packet Voice/Fax DSP Module		1		
145	Feat Lic Survivable Remote Site Telephony Up To 100 Users		1		
146	SMARTNET 24X7X4 3845H.Perf.VSEC:AIM-VPN2/SSL, PVDM2		1		
147	2811 Bundle w/AIM-VPN/SSL-2,Adv. IP Serv,10 SSL lic,64F/256D		1		
148	1-Port 2nd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1		1		
149	Power Cord,110V		1		
150	Cisco 2800 ADVANCED IP SERVICES		1		
151	Cisco 2811 AC power supply		1		
152	Feature License IOS SSL VPN Up To 10 Users (Incremental)		1		
153	CD for SDM software		1		
154	256MB DDR DRAM Memory factory default for the Cisco 2800		1		
155	64MB CF default for Cisco 2800 Series		1		
156	DES/3DES/AES/SSL VPN Encryption/Compression		1		
157	Cisco 2811 Standard Accessory Kit		1		
158	SMARTNET 24X7X4 2811 Security Bundle		1		
159	CSMARS 110R 2RU Appliance;4500EPS;1500GB,RAID 10,Redundant		1		
160	Power Cord,110V		2		
161	CS-MARS generic software ID		1		
162	CS-MARS 110R base license		1		
163	SMARTNET 24X7X4 CSMARS 110 2RU Appliance;7500EPS;1500GB		1		
164	NAC Appliance 3310 Server -max 100 users		1		
165	Power Cord,110V		1		
166	NAC Appliance 3310 Server Hardware		1		
167	NAC Appliance Server Release 4.1		1		
168	SMARTNET 24X7X4 NAC Appliance 3310 S		1		

COST SHEET - ATTACHMENT II

ALL ITEMS LISTED BELOW MAY BE BID "AS APPROVED EQUAL"

169	NAC Appliance 3310 Manager -max 3 Servers		1		
170	Power Cord,110V		1		
171	NAC Appliance 3310 Manager Hardware		1		
172	NAC Appliance Manager Release 4.1		1		
173	SMARTNET 24X7X4 NAC Appliance 3310 Mgr max 3 servers		1		
174	Nexus 5010 Storage Lab Bundle		1		
175	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America		2		
176	4 Gbps Fibre Channel-SW SFP, LC		2		
177	Nexus 5010 Storage Protocols Services License		1		
178	N5000 1000 Series Module 8xFC 4/2/1 G (req SFP)		1		
179	Nexus 5010 PSU module, 100-240VAC 550W		2		
180	Nexus 5000 Base OS Software Rel 4.0.1a.N1.1		1		
181	10GBASE-SR SFP Module		2		
182	10GBASE-CU SFP+ Cable 5 Meter		4		
183	SMARTNET 24X7X4 Nexus 5010 Storage P		1		
184	SMARTNET 24X7X4 Nexus 5010 Storage Lab Bundle		1		
185	SMARTNET 24X7X4 N5000 1000 Series Module 8xFC 4/2/1 G		1		
186	4400 Series WLAN Controller for up to 25 Lightweight APs		1		
187	AIR Line Cord North America		1		
188	Cisco Unified WLAN Controller SW Release 5.1 - ED		1		
189	Cisco Unified WLAN Controller Emergency SW Release 5.0		1		
190	SMARTNET 24X7X4 4400 Series WLAN Con		1		
191	GE SFP, LC connector SX transceiver		2		
192	802.11a/g/n-d2.0 2.4/5-GHz Mod Unified AP; 6 RP-TNC; FCC		2		
193	2.4-GHz 2.2 dBi Dipole Straight Antenna RP-TNC Gray Qty 1		6		
194	5-GHz 3.5 dBi Dipole Straight Antenna RP-TNC Gray Qty 1		6		
195	Power Supply - 1250 Series		2		
196	AIR Line Cord North America		2		
197	Console Cable for 1130, 1200, 1230, 1240, 521, 1250		1		
198	Cisco 1250 Series IOS WIRELESS LAN LWAPP RECOVERY		2		
199	SMARTNET 24X7X4 802.11a/g/n-d2.0 2.4/5-GHz Mod Unified A		2		
200	802.11a/g/n Fixed Unified AP; Int Ant; FCC Cfg		2		
201	Cisco 1140 Series IOS WIRELESS LAN LWAPP RECOVERY		2		
202	SMARTNET 24X7X4 802.11a/g/n Fixed Unified AP; Int Ant		2		
203	Pwr Sply In:100-240VAC Out:48VDC 380mA-1100,1130AG,1200,1300		2		
204	802.11a,b/g Outdoor Mesh AP, FCC Cfg		4		
205	2400-2483.5 MHz, 5.0 dBi Omni Ant. with N Connect		12		
206	4900-5850 MHz, 8.0 dBi Omni with N Connect		4		
207	1520 Series AP Software Image - IOS		4		
208	SMARTNET 24X7X4 802.11a,b/g Outdoor Mesh AP, FCC Cfg		4		
209	1520 Series Pole Mount Kit		2		
210	1520 Series Street Light Power Tap, 4 ft.		2		
211	1520 Series Power Injector		2		
212	AIR Line Cord North America		2		
213	1520 Series AC Power Cord, 40 ft. N. Amer Plug		4		

COST SHEET - ATTACHMENT II

ALL ITEMS LISTED BELOW MAY BE BID "AS APPROVED EQUAL"

	INSTALLATION				
	Description	**Notes**	**Quantity**		
214	VMWare Installation	per the ITB	1		
215	VMWare View Installation	per the ITB	1		
			.		
	SOFTWARE				
	Description	**Notes**	**Quantity**		
216	ACAD View Premier	ACAD View Premier - 100 Concurrent desktop VMs (A2418939)	1		
217	ACAD View Premier	ACAD View Premier - 100 Pack- 3yr Gold SNS - 12x5 support and subscription (A2419010)	1		
218	SQL Server Standard	SQL SVR STANDARD EDTN WIN32 ENG SA OLP NL AE (A0575709)	1		
219	SQL Server CAL	SQL CAL ENG SA OLP NL AE USER CAL (A0620505)	4		
220	ACAD vCenter Standard for vSphere	ACAD vCenter Standard for vSphere - 1 license (A2839513)	1		
221	ACAD vCenter Standard for vSphere	ACAD vCenter Standard for vSphere - 3yr Gold SNS - 12x5 support and subscription (A2839515)	1		
222	ACAD vSphere 4 Enterprise Plus	ACAD vSphere 4 Enterprise Plus - 1 socket license - Full feature set (A2839551)	20		
223	ACAD vSphere 4 Enterprise Plus	ACAD vSphere 4 Enterprise Plus - 3yr Gold SNS - 12x5 support and subscription (A2839553)	20		
224	**Warranty - 1st Year** (if not included in price of items)				
225	**Installation**				
226	**Training and Knowledge Transfer/Hour**				
227	Other costs not quoted elsewhere (Vendor to define unit of measure and identify costs being quoted)				
228	Note: Maintenance for years 2 through 5 will be paid on annual basis upon renewal.				
	GRAND TOTAL FOR ITEMS NO 1 - 228				
229	(Award will be based on the total of lines 1 through 228)				$